YEPISHIN, A. S.

Sugar industry of the Russian Soviet Federated Socialist Republic. Sakh. prom. 3: 1-5 Mr '57. (MLRA 10:4)

1. Rosglavsakhar.
(Duhsr industry)

YEPISHIN, A.S.

Sugar plants of Denmark. Sakh. prom. 31 no.1:70-73 Ja '57.
(MLRA 10:4)

1. Roaglavsakhar.
(Denmark--Sugar industry)

YEPISHIN, A.S.

Sugar industry in Holland. Sakh. prom. 31 no.2:61-68 F '57.
(MLRA 10:4)

1. Rosglavsakhar.
(Holland--Sugar industry)

YEPISHIN, A.S.

Sugar industry of the Russian Soviet Federated Socialist Republic. Sakh.prom. 31 no.3:1-5 Mr '57. (MIRA 10:4)

1. Rosglavsakhar.
(Sugar industry)

YEPISHIN, A.S.

Reexamining standard designs of production lines and types of equipment. Sakh.prom. no.4:5-4 Ap '60. (MIRA 13:8)

1. Gosudarstvennyy nauchno-tekhnicheskiy komitet SSSR.
(Sugar industry--Equipment and supplies)

YEPISHIN, A.S.

Results of the proceedings of the Conference on the Selection of Technological Systems and Equipment for Factories. Sakh.prom. 34 no.10:3-8 O '60. (MIRA 13:10)

1. Gosudarstvennyy nauchno-tekhnicheskiy komitet SSSR.
(Sugar industry--Equipment and supplies)

YEPISHIN, A.S.

Continuous boiling of massecuites. Sakh.prom. 35 no.6:30-31 Je '61. (MIRA 14:6)
(Sugar manufacture)

ZOTOV, V.P.; MAKHINYA, M.M.; PARSHIKOV, M.Ya.; GAVRILOV, A.N.; SILIN, P.M.; GOLOVIN, P.V.; KHEYZE, N.V.; BUZANOV, I.F.; KHELEMSKIY, M.Z.; YAPASKURT, V.V.; SHARKO, A.P.; SANOV, N.M.; LITVAK, I.M.; IVANOV, S.Z.; LEPESHKIN, I.P.; KLEYMAN, B.M.; YEPISHIN, A.S.; GOLUB, S.I.; GERASIMOV, S.I.; GEUBE, V.R.; PASHKOVSKIY, F.M.; LITVINOV, Ye.V.; BENIN, G.S.; IVANOV, P.Ya.; VINOGRADOV, N.V.; PONOMARENKO, A.P.; ZHIDKOV, A.A.; KOVAL', Ye.T.; KARTASHOV, A.K.; NOVIKOV, V.A.

Sixtieth birthday of A.N.Shakin, Director of the Central Scientific Research Institute of the Sugar Industry. Sakh. prom. 35 no.7:33 Jl '61. (MIRA 14:7)
(Shakin, Anatolii Nikitovich, 1901-)
(Sugar industry)

YEFISHIN, A.S.

Scientific and economic conference on the improvement of production flow sheets and equipment types in sugar factories. Sakh.prom. 37 no.9:15-21 S '63. (MIRA 16:9)

1. Gosudarstvennyy komitet po koordinatsii nauchno-issledovatel'skikh rabot SSSR.
(Sugar manufacture) (Sugar machinery)

KHELEMSKIY, Mikhail Zakharovich, prof.; YEFISHIN, A.S., inzh., retsenzent; PRITYKINA, L.A., red.

[Storage of sugar beets] Khranenie sakharnoi svekly. Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 470 p. (MIRA 17:4)

3(6),20(5),20(4)

AUTHORS: Grushinskiy,N.P., and ~~Yepishin,I.A.~~ SOV/33-36-1-23/31

TITLE: Special Quartz Clocks for Gravimetric Measurements, Their Use on the Diesel-Engine Ship "Ob" During the Antarctic Expedition of 1956-1957

PERIODICAL: Astronomicheskiy zhurnal, 1959,Vol 36,Nr 1,pp 172-178 (USSR)

ABSTRACT: The authors describe a transportable quartz clock made in the gravimetric laboratory of the Shternberg Astronomical Institute. The applications of the clock during the voyage are discussed and it is stated that it satisfies all the requirements of gravimetric determinations.
There are 8 tables.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga (State Astronomical Institute imeni P.K.Shternberg)

SUBMITTED: December 20, 1957

Card 1/1

YEPISHIN, M., polkovnik

Assure a swift attack. Voen.vest. 39 no.6:20-22 Je '60.
(MIRA 14:2)

(Infantry drill and tactics)

YEPISHIN, N.M.

Selecting measures of gas control in coal mines. Trudy Gor.-geol.inst.UFAN SSSR no.41:113-117 '59. (MIRA 13:5)
(Mine gases)

KIRILLOV, B.P., prof.; PETROVSKAYA, A.V., kand.med.nauk; MYASNIKOVA, M.N.; MAKEVINA, T.N. [deceased]; YEPISHIN, N.M. (Ryazan')

Role of creating organic anastomoses in various types of vascular pathology of the internal organs. Khirurgiia 36 no.12:3-4 '60. (MIRA 14:1)

(LIVER--CIRRHOSIS)

BIDKOVA, L.M.; BURLYA, T.G.; YEPISHIN, N.P.; LADUT'KO, S.V.; SHCHERBINA, V.A.

Effect of bone marrow homotransfusions on the clinical course and biochemical changes in acute radiation sickness. Gemat. i perel. krovi 1:99-102 '65. (MIRA 18:10)

1. Vinnitskiy meditsinskiy institut.

YEPISHIN, V.; KORSHUNOV, M.

Valuable initiative of Gorkiy drivers. Avt.transp. 39 no.3:5-6 Mr '61. (MIRA 14:3)

(Gorkiy Province—Scrap metals)

YEPISHIN, V.D.

More attention to an important matter. Zemledelie 4 no.10:118 O '56.
(Soils--Analysis) (MLRA 9:11)

YUPISHIN, V.D., agronom.

Our crop rotations. Zemledelie 6 no.2:14-16 '58. (MIRA 11:3)
(Lukoyanov District--Rotation of crops)

YEPISHIN, V.F., inzh.

Portable machine for cutting wires and lines in the erection of overhead power transmission lines. Energetik 11 no.11: 28-29 N '63. (MIRA 16:11)

YEPISHIN, Vladimir Fedorovich; KAYETANOVICH, M.M., red.

[Cutting of wires and cables] Rezka provodov i trosov. Moskva, Energiia, 1965. 32 p. (MIRA 19:1)

KARASEV, G.A., inzh.; YEFISHIN, V.F., inzh.

Testing of insulators and line equipment for use in countries with tropical climates. Elek. sta. 36 no.12:64-66 D '65.
(MIRA 18:12)

42

ABSTRACT: The author points out that [illegible] the use of the repair of the malfunctioning devices is ineffective and uneconomical, the [illegible] [illegible] in connection with scheduled repair, and the reduction of the [illegible] over the various [illegible] the spare parts. [illegible] of a spare-provide system relative to various [illegible]

Card 1/2

L 25098-65
ACCESSION NR: AT5002483

repair, and optimal conditions are indicated. It is assumed that the main (working) element is continuously monitored so that failure is immediately detected and the spare element placed in operation, and the system itself is non-

differential equations describing a certain Markov process. This [illegible] customarily used in mass-service and reliability theory. The section headings are as follows: 1. Determination of the reliability characteristics of a spare-provided system with incomplete control of the spare equipment. 2. Extrema problems. Integral method. 3. Efficiency of control in systems with multiple reserves. 4. Stability of reliability characteristics of spare-provided systems. Orig. art. has: 36 formulas and 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: IE

NR REF SOV: 003 OTHER: 001

Card 2/2

YEPISHINA, I.I.

Use of neuroplegic preparations in the compound treatment of tetanus. Sov. med. 25 no.10:89-92 O '61. (MIRA 15:1)

1. Iz kafedry infektsionnykh bolezney (zav. - dotsent A.V.Vozzhayeva) Astrakhanskogo meditsinskogo instituta i infektsionnoy bolnitsy imeni prof. Bekhtereva (glavnyy vrach - zasluzhennyy vrach RSFSR V.I.Gembitskiy).

(TETANUS) (AUTONOMIC DRUGS)

NOVIKOV, S.S.; BELIKOV, V.M.; YEPISHINA, L.V.

Action of chlorinating agents on nitrodiols. Izv.AN SSSR.Otd.-khim.nauk no.6:1111-1116 '62. (MIRA 15:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ethanediol) (Chlorination)

BOGOMOLOV, B.P.; YEPISHINA, I.I.

Bacteriophage of Escherichia coli M_{17}. Zhur. mikrobiol., epid. i immun. 41 no.3:137-138 Mr '64. (MIRA 17:11)

1. Astrakhanskiy gosudarstvennyy meditsinskiy institut.

YEPISHINA, I.I.

Methodology of using neuroplegic preparations in the compound treatment of tetanus. Sov. med. 28 no.1:79-82 Ja '65. (MIRA 18:5)

1. Astrakhanskaya infektsionnaya bol'nitsa imeni prof. V.M.Bekhtereva (glavnyy vrach T.A. Kol'yakova, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. G.P.Rudnev).

NOVIKOV, S.S.; SEVOST'YANOVA, V.V.; YEPISHINA, L.V.

Synthesis of nitroalkyl siloxanes. Izv. AN SSSR Ser.khim. no.10: 1860-1861 O '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

ACC NR: AP6030569 SOURCE CODE: UR/0413/66/000/016/0035/0036

INVENTOR: Lebedev, O. V.; Yepishina, L. V.; Sevost'yanova, V. V.; Novikova, T. S.; Khmel'nitskiy, L. I.; Novikov, S. S.

ORG: none

TITLE: Preparation of 2-nitro derivatives of imidazole. Class 12, No. 184868 [announced by Institute of Organic Chemistry im. N. D. Zelinskiy (Institut organicheskoy khimii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 35-36

TOPIC TAGS: imidazole nitro derivative, methylformylimidazole oxime, nitrogen tetroxide, imide, organic nitro compound, organic oxime

ABSTRACT: In the proposed method, 2-nitro derivatives of imidazole are prepared by treatment of 4-methyl-5-formylimidazole oxime with nitrogen tetroxide at 2—3°C in absolute acetonitrile with further heating at ~70°C and isolation of the product by known methods.

[WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 24Mar65/

Card 1/1 UDC: 547.781.5.07

YEFISHINA, M.

YEFISHINA, M.

From the work practice of a trade-union district committee.
Sov. profsoiuzy 2 no.6:29-32 Je '54. (MLRA 7:7)

1. Predsedatel' Rakshinskogo RK profsoyuza meditsinskikh rabotnikov (Voronezhskaya oblast')
(Public health) (Trade unions)

YEPISHKIN, D. P.

YEPISHKIN, D. P. - "Investigation of the process of operating cultivators in the continuous cultivation of soil in order to improve their design". Leningrad, 1955. Min Higher Education USSR. Leningrad Order of Lenin Forestry Engineering Academy imeni S. M. Kirov. (Dissertation for the Degree of Candidate of Technical Science.)

SO: Knizhnaya Letopis', No. 43, 22 October 1955. Moscow

BOGOYAVLENSKIY, A.F., zasl. deyatel' nauki i tekhniki Tatarskoy Avtonomnoy Sovetskoy Sotsialisticheskoy Respubliki, doktor khim. nauk, prof., red.; YEPISHKINA, L.S., inzh. red.

[Anodic protection of metals; reports] Anodnaia zashchita metallov; doklady. Pod red. A.F.Bogoiavlenskogo. Moskva, Mashinostroenie, 1964. 527 p. (MIRA 17:9)

1. Mezhvuzovskaya konferentsiya po anodnoy zashchite ot korrozii. 1st.

BEDA, G.A. (Moskva); YEPISHKIN, Yu.A. (Moskva)

Some problems in liquid film flow. Inzh.zhur. 1 no.2:60-68 '61.
(MIRA 14:12)

(Boundary layer)

YEPISHOV, N.M., inzh.

Maximum moment safety clutch on the turning mechanism of the S-419 tower crane. Stroi.i dor.mash. 7 no.2:15 F '62. (MIRA 15:5)

(Cranes, derricks, etc.—Safety appliances) (Clutches (Machinery))

YEPISKOPOSYAN, G. L.

"The Effects of the Method of Cultivating Shrubs of the Shivran Shakhi Variety and Technology on the Composition and Quality of Dessert Wines." Cand Agr Sci, Moscow Order of Lenin Agricultural Inst imeni K. A. Timiryzaev, Moscow, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

S/137/62/000/005/033/150
A006/A101

AUTHORS: Ayrapetyan, G., Yepiskoposyan, M.

TITLE: Preparation of selenium and tellurium by the acid method from anodic slimes of the Alaverdy Copper-Chemical Combine

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 19, abstract 5G114 ("Prom-st' Armenii", 1961, no. 10, 32 - 36, Russian)

TEXT: The authors analyze an acid scheme for extracting Se and Te from copper-electrolytical slimes of the Alaverdy Copper-Chemical Combine. According to this scheme, the anodic slime is first processed with HNO_3 and then with H_2SO_4, at a gradual mixing with compressed air and heating of the pulp to 90°C. At the end of the slime decomposition, formalin is supplied into the reactor. The filtered solution is used for Ag precipitation and the cake for the additional extraction of precious metals. The filtered solution after separating of Ag, is used first for Se and then Te precipitation with the aid of SO_2. At a HNO_3 : H_2SO_4 : slime ratio = 1.5 : 0.9 : 1, the extraction into the solution is: Cu 100%; Se 97 - 98%, Te 84 - 85%.

G. Svodtseva

[Abstracter's note: Complete translation]

Card 1/1

AYRAPETYAN, G.; YEPISKOPOSYAN, M.

Using the acidic method for producing selenium and tellurium of anode slime at the Alverdi Copper Chemical Works. Prom.Arm. 4 no.10:32-36 O '61. (MIRA 14:11)
(Alaverdi—Tellurium—Metallurgy)
(Alaverdi—Selenium—Metallurgy)

YEPISKOPOSYAN, M.

Sulfating the roasting of copper concentrates in Armenia. Prom.Arm. 6 no.10:49-54 O '63. (MIRA 17:1)

1. Naucjno-issledovatel'skiy gornometallurgicheskiy institut Soveta narodnogo khozyaystva ArmSSR.

YEFISKOPOSYAN, M.L.

Kinetics of copper cementation with iron from $CuCl_2$ solutions. Izv. AN Arm.SSSR.Khim.nauki 17 no.4:447-456 '64. (MIRA 18:6)

1. Nauchno-issledovatel'skiy gorno-metallurgicheskiy institut Soveta narodnogo khozyaystva ArmSSR.

YEPISKOPOSYAN, M.L.; KAKOVSKIY, I.A.

Studying the kinetics of copper and silver cementation by metallic iron from chloride solutions. TSvet.met. 38 no.10:15-19 O '65. (MIRA 18:12)

YEPIVANOV, N.S., kand.med.nauk, zasluzhennyy vrach RSFSR (Kirov (obl.), ul. Derendyayeva, d.8, kv.10)

Choice of surgical method in gastrocolic fistula. Nov.khir.arkh. no.5:85-89 S-O '59. (MIRA 13:3)

1. Khirurgicheskoye otdeleniye (zaveduyushchiy - N.S. Yepifanov) Kirovskoy oblastnoy bol'nitsy.
(FISTULA)

ABEYDULINA, V.A.; ANNENKOV, G.V.; YEPKHIYEVA, L.G.; VOROB'YEVA, L.I., red.

[Methodology for determining the level of production mechanization in confectionery enterprises] Metodika opredeleniia urovnia mekhanizatsii proizvodstva na predpriiatiiakh konditerskoi promyshlennosti. Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 99 p. (MIRA 17:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut konditerskoy promyshlennosti. 2. TSentral'nyy nauchno-issledovatel'skiy institut konditerskoy promyshlennosti, otdel ekonomiki (for Abeydulina, Annenkov, Yepkhiyeva).

YEPLOV, N.I.

[Economic evaluation of the addition of local cars to collector trains] Ekonomicheskaia otsenka popolneniia sbornykh poezdov vagonami uchastkovogo potoka. Moskva, 1959. 21 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Soobshchenie, no.10) (MIRA 13:9)

(Railroads--Making up trains)

2/,2300

66544

SOV/144-59-4-12/13

AUTHOR: Yeponeshnikov, V.N., Aspirant

TITLE: A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 4, pp 118 - 122 (USSR)

ABSTRACT: The magnetic field drop index is defined by the relation:

$$n = (R/B)(\Delta B/\Delta R) .$$

Eddy currents at the beginning of the acceleration cycle. and saturation effects at the end of the cycle change the magnitude of n very considerably. At certain instants of time, n may pass through resonance values which may lead to the termination of the acceleration process and hence the magnitude of n in the working region of the air gap should lie within a certain predetermined range of values. It follows that it is necessary to measure the drop index n as a function of time. A number of methods for this have been suggested in the literature (Refs 1-3) but these methods are complicated if high accuracy is to be achieved.

Card1/8

66544

SOV/144-59-4-12/13

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

Consider a set of cylindrical multilayer coils, 1, 3 and 2, as shown in Figure 1. The middle coil is at a radius R_3 and the outer coils at radii:

$$R_1 = R_3 - \Delta R/2 \quad \text{and} \quad R_2 = R_3 + \Delta R/2 \ .$$

The induced electromotive forces in the three coils are then given by:

$$U_1 = - A_1 \frac{dB_1}{dt} \ ; \quad U_2 = - A_2 \frac{dB_2}{dt} \ ; \quad U_3 = - A_3 \frac{dB_3}{dt} \qquad (2)$$

where A_1, A_2 and A_3 are the effective cross-sectional areas of the coils, respectively. If Eqs (2) are integrated, one obtains:

4

Card 2/8

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

$$\int_0^t U_1 dt = - k_1 \cdot A_1 \cdot B_1(t); \quad \int_0^t U_2 dt = - k_2 \cdot A_2 \cdot B_2(t) ;$$

$$\int_0^t U_3 dt = - k_3 \cdot A_3 \cdot B_3(t) \qquad (3)$$

where k_1, k_2 and k_3 are the transmission coefficients of the integrating circuit. It follows that:

4

Card 3/8

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

$$B_3(t) = -\frac{\int_0^t U_3 dt}{k_3 \cdot A_3} \quad : \qquad (4) .$$

$$\Delta B(t) = B_1 - B_2 = -\frac{\int_0^t U_1 dt}{k_1 \cdot A_1} + \frac{\int_0^t U_2 dt}{k_2 \cdot A_2}$$

If the coils are made so that $A_1 = A_2 = A_3$ and the emf difference between the outer coils is integrated, using an integrating circuit having a transmission coefficient $k_{12} = k_1 = k_2$, then the field drop index is given by:

Card 4/8

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

$$n_t = \frac{R}{\Delta R} \cdot \frac{k_3}{k_{12}} \frac{\int_0^t (U_1 - U_2)dt}{\int_0^t U_3 dt} = \frac{R}{\Delta R} \cdot \frac{k_3 \cdot \Delta U'}{k_{12} \cdot U'} \qquad (5) .$$

Thus, it is necessary to know the ratio of $\Delta U'/U'$. This may be done by applying $\Delta U'$ to the Y-plates and U' to the X-plates of an oscilloscope. If U' is proportional to $\Delta U'$ then one obtains a straight line. If, however, B and ΔB do not vary in the same way then a curve will be seen on the CRO screen (Figure 2). The displacement of the electron beam along the Y-axis at a time t will be given by:

$$y = m_y \cdot [\Delta U'] \qquad (6)$$

4

Card 5/8

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

while the displacement along the X-axis will be:

$$x = m_x \cdot [U'] \qquad (7)$$

where m_y and m_x are constants depending on the amplification, etc. of the oscilloscope. Using Eqs (6), (7) and (4), we have:

$$n_t = C \cdot \frac{R}{\Delta R} \cdot \frac{y}{x} \qquad (8)$$

where:

$$C = \frac{m_x \cdot k_3}{m_y \cdot k_{12}} \qquad (9) .$$

Thus, in order to measure n_t at a given radius R, it

4

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

is necessary to know the ratio of the coordinates on the oscillogram and the magnitude of the quantity C . The origin of the coordinates is conveniently taken at the point where the field at the radius R passes through zero. If, in addition to the middle coil at the radius R a permalloy probe is inserted, then the positive pulse from the probe coil may be used to modulate the brightness of the electron beam. Thus, the instant when the field passes through zero is indicated on the oscillogram by a bright point. This defines the origin of the coordinate. A trigger circuit with time delay which is also controlled by the permalloy zero-field probe is used to obtain on the oscillogram another bright point which marks a pre-set interval of time after the field at the radius R passes through zero. Eq (8) involves the quantity C and this is determined in a preliminary calibration. The method has been used to determine the effect of eddy current and

4

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

saturation on n_t .

There are 4 figures and 5 references, of which 1 is French, 3 English and 1 Soviet (translated from English).

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)

4

Vladimir Nikolayevich

SOV/144-59-6-12/15

AUTHOR: Yeponeshnikov, V.N., Aspirant

TITLE: Effect of Eddy Currents on the Change in the Effective Angle of Quadrants of Synchrotrons with Straight Sections

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 6, pp 96 - 98 (USSR)

ABSTRACT: In racetrack-type synchrotrons, undesirable end effects in the transition region between magnetic quadrants and field free straight sections are caused by the leakage flux and by out-of-phase field components, due to eddy currents in the end laminations. The leakage flux increases the effective angle of the quadrants, which is defined as the angle through which the main field in a quadrant deflects an electron, while the latter travels from the mid-point of one straight section to the mid-point of the next one. If the geometrical angle of the quadrant is $\pi/2$, then due to flux leakage, the effective angle of the quadrants will be greater than $\pi/2$. This effect has been investigated experimentally by the present author, who measured the magnetic-field distribution in the straight sections. The author concludes that the effect of eddy

Card 1/2

Effect of Eddy Currents on the Change in the Effective Angle of Quadrants of Synchrotrons with Straight Sections

currents in the end laminations may be eliminated by suitable shaping of the magnet ends. If the shaping is insufficient, then the edge effect must be compensated during the injection time by an additional compensating coil. There are 1 figure and 3 references, of which 2 are Soviet and 1 English.

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)

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S/139/60/000/01/025/041
E032/E414

21.2100

AUTHORS: Yeponeshnikov, V.N., Kirillov, V.P., Kuz'min, V.N. and Petrov, Yu.K.

TITLE: The Dynamics of the Effective Angle of a Sector in Accelerators with Straight Line Sections

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, Nr 1, pp 139-144 (USSR)

ABSTRACT: The design orbit in accelerators with straight line sections is usually in the form of a closed curve consisting of four straight line sections connected by four circular arcs of radius r0 and subtending an angle of 90° at the centre. One of the necessary conditions for the actual orbit to coincide with the design orbit is that the magnetic field should be zero over the straight line sections and uniform over the other sections. However, owing to leakage, the true magnetic field always differs from the design field so that it is always necessary to introduce the concept of the effective angle of a sector and this is defined by

Card 1/3

S/139/60/000/01/025/041
E032/E414

The Dynamics of the Effective Angle of a Sector in Accelerators with Straight Line Sections

Eq (1). The actual distribution of the field is normally of the form indicated by Fig 1. The effective angles of sectors will decrease at low fields owing to eddy currents and residual induction. They will also decrease at high fields owing to saturation effects. This will lead to the appearance of a well-defined fourth harmonic of the distortion of the design orbit, and to a reduction in the maximum energy of the accelerated particles. In the case of inductive acceleration, the betatron ratio is also affected. All these effects have been investigated by the present authors using a plane model. The effects have been found to be small towards the end of the acceleration cycle. They have the biggest effect at the beginning of the cycle. In the latter case the amplitude of the fourth harmonic of the design orbit becomes comparable with the radial dimension of the working region and the change in the betatron ratio may be of the order of a few

S/139/60/000/01/025/041
E032/E414

The Dynamics of the Effective Angle of a Sector in Accelerators with Straight Line Sections

tenths of a percent. The reduction in the sector angle may be compensated at the beginning of the acceleration cycle by increasing the injection energy. The field at sector edges may be corrected by d.c. current methods. There are 5 figures and 2 references, 1 of which is Soviet and 1 English.

ASSOCIATION: NII pri Tomskom politekhnicheskom institute imeni S.M.Kirova (Scientific Research Institute of the Tomsk Polytechnical Institute imeni S.M.Kirov)

SUBMITTED: April 3, 1959

YEPOROVA, I. A.

25340 EPOROVA, I. A. Ob interpolirovanii po kornyam polinomov chebysheva. Uchen. Zapiski (Leningr Gos. Ped. in-t im. Gertsena), T. LXIV, 1948, s. 27-34.

SO: Letopis' Zhurnal Statey No. 30, Moscow, 1948

YEPOVA, I.E.

EXCERPTA MEDICA Sec 3 Vol 12/9 Endocrinology Sep 58

1747. THE THYROID GLAND IN THE REGULATION OF CELL DIVISION (Russian text) - Epova I. E., Dept. of Histol., Med. Inst., Khabarovsk - BYULL. ESPER. BIOL. I MED. 1957, 43/2 (80-84) Tables 3 Illus. 3

Thyroidectomy in rats produced a decrease in mitotic activity in the epithelium of cornea, gut, tongue and skin. On administration of TSH and activation of the thyroid gland in mice there was also an increase in mitotic activity in the epithelium. The structural changes in the thyroid indicating a rise in its activity with an increase in the corneal mitoses were also observed on the additional exposure of mice to an electric light for 5 to 6 hr. daily for 10 days. This effect was not observed on feeding the animals under illumination with methylthiouracil. It is suggested that the thyroid hormone stimulates cell division. Raskin - Leningrad (S)

YEPOVA, N.A.

Characteristics of the fir taiga of the Khamar-Daban Range. (MIRA 15:3)
Trudy BKNII no.4:141-163 '60.
(Khamar Daban Range—Fir)

YEROVA, N.A.

Fractional division of the Khamar-Daban Range (southern part of cantral Siberia) into geobotanical regions. Probl. bot. 5:47-61 '60. (MIRA 13:10)

1. Kafedra botaniki Irkutskogo universiteta, Irkutsk.
(Khamar-Daban Range--Phytogeography)

YEPOYAN, A.O.

Strength and deformation of light concretes with volcanic aggregate under repeatedly reversing load. Izv. AN Arm. SSR. Ser. tekh. nauk. 17 no.5:61-68 '64. (MIRA 18:4)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy.

YEPREMIDZE, K.I.

Industrial production should correspond to state standards.
Standartizatsiia 29 no.1:58 Ja '65. (MIRA 18:4)

1. Nachal'nik otdela standartizatsii i normalizatsii Kutaisskogo avtomobil'nogo zavoda imeni Ordzhonikidze.

MUSHEGYAN, G.P.; YEPREMYAN, G.A.; ADAMYAN, F.A.

Regeneration of peripheral nerves. Nauch.trudy Inst.fiziol. AN Arm. SSR. 3:95-101 '50. (MLRA 9:8)
(NERVOUS SYSTEM--DEGENERATION AND REGENERATION)

USSR/Human and Animal Physiology. Nervous System. Spinal Cord. T-10

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55999.

Author : Yepremyan, G. A., Matinyan, L.A.
Inst : Academy of Sciences ArmSSR, Section of Biology and Agriculture.
Title : Histophysiological Characterization of Compensatory Adaptations in Turtles After a Partial Transection of the Posterior Spinal Cord.

Orig Pub: Izv. AN Arm SSR. Biol. i s.-kh. n., 1957, 10, No 7, 99-106.

Abstract: When a partial cross transection of the posterior spinal cord (SC) between S_8 and Th_1 was performed on 16 adult turtles (T), it led to increased sensitivity of the hind paws, to an insignificant decrease in reflectory muscular contractions, a shortening of the

Card : 1/3

Abst.Jour: Ref Zhur-Biol., No 12, 1958, 55999.

time for the muscles to become weaker, as well as to disturbed locomotion. These functional impairments were restored within the 5th-8th day after the operation. In 4 young T the functional impairment of the lower extremities was restored 24-36 hours after an equivalent operation. On the 3th to 4th day a restoration of SP conduction leading from the lower to the upper area of the spinal cord was observed. The transection of a large part of SC in adult T led to functional disturbances which were not restored during 4 months of observations. In seven T a morphological examination of the impaired sectors of SC was performed by the staining method with hematoxylin and eosin, and by silver impregnation according to Bil'shovskiy-Gros, as

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55999.

modified by Lavrent'yev. (This method is not adequate for the exposure of the neuron structure and of the spinal cord's conduction ducts. The abstractor's remark).

YEPREMYAN, G.A. (Yerevan)

Frequency of congenital heart defects. Arkh. pat. 19 no.1:61 '57 (MLRA 10:4)

1. Iz kafedry patologicheskoy anatomii (zav.-dotsent V.T. Gabriyelyan) Yerevanskogo m editsinskogo instituta.
(HEART--ABNORMITIES AND DEFORMITIES)

YEPREMYAN, G.A.

Amebiasis of the colon. Izv. AN Arm.SSR. Biol. i sel'khoz.nauki 11 no.8:101-104 Ag '58. (MIRA 11:10)

1. Kafedra gistologii Yerevanskogo meditsinskogo instituta.
(AMEBIASIS) (COLON (ANATOMY)--DISEASES)

YEPREMYAN, G.A.

Reactive changes in the lung parenchyma due to thermal burns. Izv. AN Arm. SSR. Biol. nauki 13 no.2:53-62 F '60. (MIRA 13:7)

1. Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.
(BURNS AND SCALDS) (LUNGS—WOUNDS AND INJURIES)

YEPREMYAN, G.A.

Reactive changes in the lung parenchyma resulting from injuries by different metals. Izv. AN Arm. SSR. Biol. nauki 14 no. 4:27-37 Ap '61. (MIRA 14:4)

1. Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.

(LUNGS—WOUNDS AND INJURIES)

YEPREMYAN, G.A., dotsent; MATINYAN, L.A.

Compensatory adaptations following ligation of the posterior half of the spinal cord in chickens. Trudy Erev.med.inst. no.11:91-96 '60. (MIRA 15:11)

1. Iz kafedry gistologii i embriologii Yerevanskogo gosudarstvennogo meditsinskogo instituta - zav. kafedroy dotsent G.A.Yepremyan i Instituta fiziologii AN Armyanskoy SSR - direktor prof. A.M. Aleksanyan.

(ADAPTATION (BIOLOGY))
(SPINAL CORD--LOCALIZATION OF FUNCTIONS)

MATINYAN, L.A.; YEPREMYAN, G.A.

Histophysiological characteristics of the spinal cord after its complete severing and the use of lidase, hyaluronidase, and proserine. Zhur.eksp. i klin.med. 4 no.3:3-12 '64. (MIRA 18:1)

1. Institut fiziologii imeni akademika L.A.Orbeli AN Armyanskoy SSR i Kafedra gistologii Yerevanskogo meditsinskogo instituta.

YEREMYAN, P.L.

"Sutural" anticline zone in the Lake Sevan region. Dokl. AN Arm. SSR 41 no. 4:230-234 '65 (MIRA 19:1)

1. Gosudarstvennyy proizvodstvennyy geologicheskiy komitet Armyanskoy SSR.

YEPSHEYN, Ye.F.

AUTHOR: None Given. 24-1-25/26

TITLE: New methods of investigation of the processes of disruption of rocks by mechanical methods. (Novyye metody issledovaniya protsessov razrusheniya gornykh porod mekhanicheskimi sposobami).

PERIODICAL: Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk, 1958, No.1, p.143 (USSR).

ABSTRACT: Over 160 investigations are proceeding in the Soviet Union relating to the breaking up of rocks. At the Institute of Mining (Institut Gornogo Dela) a conference was held between September 25 and 27, 1957 with the participation of establishments of the Ac.Sc. and other research institutes as well as representatives of over fifty organisations.
Doctor of Technical Sciences, Prof. M. M. Protod'yakonov presented a paper on the aims of the conference; the first day was to be devoted to methods of investigation of processes of drilling blast holes and wells.
N. N. Simonov in his paper "Technique of investigation of the power consumed for drilling shot holes in the case of forced feeding of the drilling bit" and
M. G. Krapivin in his paper "Technique of investigation of the operation of the tool bit of an electric drill"

Card 1/5

New methods of investigation of the processes of disruption of rocks by mechanical methods.

reported on the work proceeding in the Novocherkassk Polytechnical Institute (Novocherkasskiy Politekhnicheskiy Institut).
A. A. Volkov, Khar'kov Mining Institute (Khar'kovskiy Gornyy Institut) read the paper "Prospects of application of electrical methods of measuring the parameters of the drilling process" using an induction torsion dynamometer developed by this author. The application of wire strain gauges, piezo-electric and inductive pick-ups and of stroboscopic photography was considered in the paper "Methods and techniques of investigation of certain elements of the process of drilling and operation of drilling apparatus" by Ye. F. Yepsheyn, Dnepropetrovsk Mining Institute (Dnepropetrovskiy Gornyy Institut).
S. G. Kaloshin, Institute of Mining, Ac.Sc. Kazakh SSR (Institut Gornogo Dela Akademii Nauk Kazakhskoy SSR) described the study by means of stereophotography of the profile of a channel formed in the rock during the impact of the drill. The paper of V. I. Dusev, Moscow Institute of Non-Ferrous Metals and Gold (Moskovskiy Institut Tsvetnykh Metallov i Zolota) dealt with the technique of

New methods of investigation of the processes of disruption of rocks by mechanical methods.

investigation of the effectiveness of disruption of rocks in the case of impact-swivelling drilling by means of drilling bits of various designs. During the discussion of the above papers O. D. Anisimov, Tomsk Polytechnical Institute (Tomskiy Politekhnicheskiy Institut) described a stand for operating rotational, impact-swivelling, impact-rotational methods of drilling. M. M. Protod'yakonov pointed out that for a number of asymptotic relations evaluation of experimental data on logarithmic coordinate grids is inapplicable and he proposed the use of rectified curves by applying shifted hyperbolas. In his paper "Methods of investigation of the mechanical properties of rocks at high pressures" M. P. Volorovich, Institute of Physics of the Earth, Ac.Sc. USSR (Institut Fiziki Zemli Akademii Nauk SSSR) gave a general review of investigations carried out outside the Soviet Union, in addition to expressing certain views himself. R. M. Eyveles (VNIIBurneft') read a paper on the methods of synchronisation of recordings of a large number of metering instruments when studying rapid non-repetitive processes (impact of a blade edge on rock) and also for studying elementary acts of disruption on a

New methods of investigation of the processes of disruption of rocks by mechanical methods.

transparent material (glass) by means of polarised light and high speed filming (to 4000 frames per second). In his paper "Technique of investigations of the execution organ of the Kiev mechanised heading machine" K. B. Shlyapin, VNII-Transport Construction (VNII Transportnogo Stroitel'stva) dealt with experimental work under mine conditions. V. P. Fomichev described in his paper the technique of laboratory investigations of the force of feeding the cutting bit during cutting of mined coal. Members of the Institute of Building Materials and Structures of the Armenian SSR, Ac. Sc. (Institut Stroitel'nykh Materialov i Sooruzheniy AN Armyanskoy SSR) presented two papers, namely, "Technique of investigation of the process of splitting natural stones by blades with wedges during static and dynamic operation" (A. A. Abramyan) and "Technique of investigation of friction and wear during cutting of rocks" (K. S. Vardanyan). In the discussions R. L. Zagorskiy, All-Union Coal Research Institute VUGI (Vsesoyuznyy Nauchno-Issledovatel'skiy Ugol'nyy Institut VUGI) described briefly a test stand for planetary

New methods of investigation of the processes of disruption of rocks by mechanical methods.

cutting of rocks and Chumak, All-Union Research Institute for the Organisation and Mechanisation of Mine Construction VNIIOMShS (Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Organizatsii i Mekhanizatsii Shakhtnogo Stroitel'stva VNIIOMShS), described a test stand for investigating vibro-impact drilling. In the resolutions it was mentioned that, in spite of known achievements in the field of developing experimental methods and techniques for studying processes of disruption of rocks, utilisation of the latest achievements in physics is lagging. For instance, radio-active isotopes, semi-conducting instruments etc. are not being used on an adequate scale. It was also pointed out that most institutes were forced to design and build strain gauge apparatus and a number of metering instruments on a very small scale and evidently it will be necessary to organise centralised manufacture of such apparatus.

Card 5/5

(Note: This is an almost complete translation).

AVAILABLE: Library of Congress.

L 40337-66 EWP(j)/EWT(m)/T IJP(c) RM

ACC NR: AP6007521 (A) SOURCE CODE: UR/0419/65/000/002/0010/0015

AUTHOR: Navumava, S. F.; Slabodchykava, L. K.; Yerafeyev, B. V.

ORG: None

TITLE: Epoxy resin based on polycyclohexadiene-1,3

SOURCE: AN BSSR. Vestsi. Seryya khimichnykh navuk, no. 2, 1965, 10-15

TOPIC TAGS: epoxide, epoxy resin, hydrogen peroxide, cyclic group, diene synthesis, olefin

ABSTRACT: The authors study epoxidation of polycyclohexadiene-1,3 in a mixture of hydrogen peroxide and formic acid as a function of concentration of the epoxidizing reagents, the order in which they are added and the time and temperature of epoxidation. It is found that epoxidation under mild conditions produces an eposy resin with an epoxide oxygen concentration of 6-9%. Optimum conditions for using hydrogen peroxide and formic acid in epoxidation of polycyclohexadiene-1,3 are as follows: A formic acid concentration of 19-28% with respect to hydrogen peroxide; a hydrogen peroxide concentration of 35-70% with respect to the polycyclohexadiene-1,3 to be epoxidized; a temperature of 40°C and an epoxidation time of 5 hours. Orig. art. has: 7 tables.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 003

Card 1/1

YERAKHTIN, B.N., insh.

New concrete technology on the Bukhtarminsk Hydroelectric Power Station project. Energ.stroi. no.6:35-38 '58. (MIRA 12:11)

1. Irtyshenergostroy.
(Bukhtarminsk Hydroelectric Power Station)

YERAKHTIN, B.M., inzh.

Crack formation and temperature conditions of the dam of the Bukhtarma Hydroelectric Power Station during construction. Gidr. stroi. 32 no.5:5-11 Je '62. (MIRA 15:6)
(Bukhtarma Hydroelectric Power Station--Dams)

VULIS, L.A.; YERAKHTIN, B.M.; INYUSHIN, M.V.; LUK'YANOV, A.T.

Calculation of thermal conditions of a concrete dam for the selection of efficient methods of construction work. Inzh.-fiz.zhur. 6 no.10:3-8 O '63. (MIRA 16:11)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, Alma-Ata.

LITVINOVA, R.Ye., inzh.; YERAKHTIN, B.M.; VOLOKHOV, V.A.; SHILOV, V.A.

Pouring of concrete mixture at the Bukhtarma Hydroelectric Power Station in long blocks without longitudinal seams. Energ. stroi. . . no.16:13-15 '60. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki imeni B.Ye. Vedeneyeva (for Litvinova). 2. Stroitel'stvo Bykhtarminskoy gidroelektrostantsii (for Yerakhtin). 3. Moskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva (for Volokhov, Shilov).

YERAKHTIN, D. D.

Tractors

Means for increasing the power of tractor KT-12. Les. prom. 12 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

YERAKHTIN, D. D., Docent; SHASHEV, I. A., Eng.

Lumber - Standards

Temporary garages and simplified kilns for gas-generating blocks. Les. prom. 12 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952 Uncl.

Yerakhtin, D D

Parovaya ustanovka dlya razogrevaniya avtomobiley i traktorov na lesnom otvode pri bezgarazhnom khranenii (Steam installation for warming up motor vehicles and tractors kept outside of garages in logging camps) Moskva, Goslesbumizdat, 1953
73 p. diagrs.

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YERAKHTIN, D.D.

SIDOROV, F.F.; ZGIRSKIY, Ch.I.; ANAKIN, I.A.; YERAKHTIN, D.D., kandidat tekhnicheskikh nauk, retsenzent; SOBOLEV, L.A., inzhener, retsenzent; BUSHUYEV, N.M., kandidat tekhnicheskikh nauk, redaktor; SHABASHOV, A.P., kandidat tekhnicheskikh nauk, redaktor.

[Repair of agricultural machinery] Remont sel'skokhoziaistvennykh mashin. Sverdlovsk, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry [Uralo Sibirskoe otd-nie] 1953. 295 p. (MLRA 7:6)
(Agricultural machinery--Repairing)

YERAKHTIN, D.D.

VAGANOV, A.K.; YERAKHTIN, D.D., kandidat tekhnicheskikh nauk, retsenzent; GUTMAN, I.M., inzhener, retsenzent; DUGINA, N.A., tekhnicheskiy redaktor

[How to get better use from a diesel tractor engine] Kak luchshe ispol'zovat' dvigatel' dizel'nogo traktora. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 108 p. (MLRA 8:3)
(Tractors--Engines) (Diesel engines)

YERAKHTIN, Dmitriy Dmitriyevich; SOLOV'YEV, N.S., redaktor; PITERMAN, Ye.,L., redaktor; KARASIK, N.P., tekhnicheskiy redaktor.

[Diesel locomotives for lumber haulage] Motovozy lesotransporta. Moskva, Goslesbumizdat, 1955. 285 p. (MLRA 8:4)
(Lumber—Transportation)

YERAKHTIN, D.D., dotsent; PARFENOV, G.M., dotsent.

Means of over-all mechanization of lumbering operations. Mekh. trud. rab. 10 no.9:35-37 S '56. (MLRA 9:10)

(Lumbering--Machinery)

YERAKHTIN, D.D.

ANDRYUSHCHENKO, Yu.S.; BAGIN, Yu.I.; BASHKIRTSEV, A.A.; BELEN'KOV, G.Ye.; BELINICHER, I.Sh.; BUSHUYEV, N.M.; VAGANOV, A.K.; GASHEV, A.M.; YES'KOV, K.A.; ZGIRSKIY, Ch.I.; IGNAT'YEV, M.I.; KORUSHKIN, Ye.N.; KUZ'MOV, N.T.; PATSKEVICH, I.R.; PICHAK, F.I.; RAYTSES, V.B.; RUDAKOV, A.S.; SAPRYKIN, V.M., SIDOROV, F.F.; UMINSKIY, Ye.A.; KHANZHIN, P.K.; CHEREMOVSKIY, Yu.I.; YERAKHTIN, D.D., kand.tekhn.nauk; retsenzent; MAKAROV, M.P., insh.,retsenzent; TORBEYEV, Z.S., kand. tekhn.nauk, retsenzent; POLKANOV, I.P., kand.tekhn.nauk, retsenzent; IGNAT'YEV, M.G., agronom, retsenzent; GUTMAN, I.M., inzhener, retsenzent; SARAFANNIKOVA, G.A., tekhn.red.; YERMAKOV, N.P., tekhn.red.

[Manual for agricultural mechanizers] Spravochnik mekhanizatora sel'skogo khoziaistva. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Pt.1. [Tractors and automobiles, agricultural machinery and implements, and operation of machine and tractor yards] Traktory i avtomobili, sel'skokhoziaistvennye mashiny i orudiia, ekspluatatsiia mashinno-traktornogo parka. Pod. red.N.M.Bushueva. 1957. 462 p. (MIRA 10:12)

(Machine-tractor stations)

ANDRYUSHCHENKO, Yu.S.; BAGIN, Yu.I.; BASHKIRTSEV, A.A.; BELEN'KOV, G.Ye.; BELINICHER, I.Sh.; BUSHUYEV, N.M.; VAGANOV, A.K.; GASHEV, A.M.; YEMS'KOV, K.A.; ZGIRSKIY, Ch.I.; IGANT'YEV, M.I.; KOKUSHKIN, Ye.N.; KUZ'MOV, N.T.; PATSKEVICH, I.R.; PICHAK, F.I.; PAYTSES, V.B.; RUDAKOV, A.S.; SAFRYKIN, V.M.; SIDOROV, F.F.; UMINSKIY, Ye.A.; KHANZHIN, P.K.; CHERNOMOVSKIY, Yu.I.; YERAKHTIN, D.D., kand. tekhn. nauk, retsenzent; MAKAROV, M.P., inzh., retsenzent; TORBEYEV, Z.S., kand. tekhn. nauk, retsenzent; POLKANOV, I.P., kand. tekhn. nauk, retsenzent; IGNAT'YEV, M.G., agronom, retsenzent; GUTMAN, I.M., inzh., retsenzent; YERMAKOV, N.P., tekhn. red.; SARAFANNIKOVA, G.A., tekhn. red.

[Reference manual for the agricultural machine operator] Spravochnik mekhanizatora sel'skogo khoziaistva. Pt.2. [Repair of tractors and agricultural machinery] Remont traktorov i sel'skokhoziaistvennykh mashin. Pod red. N.M. Bushueva. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. 1957. 335 p. (MIRA 11:9)
(Agricultural machinery—Maintenance and repair)

YERAKHTIN, Dmitriy Dmitriyevich; ORLOV, S.F., prof., retsenzent; VORONITSIN, K.I., dots., retsenzent; PITERMAN, Ye.A., red. izd-va; KARASIK, M.P., tekhn. red.; BACHURINA, A.M., tekhn. red.

[Traction machinery. Pt.2. Steam locomotives, gasoline and diesel locomotives, electric locomotives] Tiagovye mashiny. Moskva, Goslesbumizdat. Pt.2. Parovozy, motovozy, elektrovozy. 1957. 488 p. (MIRA 11:7)

1. Kafedra tyagovykh mashin Leningradskoy lesotekhnicheskoy akademii im. S.M. Kirova (for Orlov). 2. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki lesnoy promyshlennosti (for Voronitsin).
(Locomotives)

YERAKHTIN, D.D.

GOL'DBERG, Aleksandr Moritsevich; ZAYCHIK, G.I., prof., doktor tekhn. nauk, retsenzent; YERAKHTIN, D.D., dotsent, retsenzent; SOLOV'YEV, N.S., red.; PITERMAN, Ye.L., red.izd-va; BACHURINA, A.M., tekhn.red.

[Engines for machines used in lumber transportation] Dvigateli lesotransportnykh mashin. Moskva, Goslesbumizdat, 1959. 470 p. (MIRA 12:7)

(Engines) (Lumbering--Equipment and supplies)

YERAKHTIN, Dmitriy Dmitriyevich, dots., kand. tekhn. nauk; GOKHMAN, Shlema Moiseyevich, kand. tekhn. nauk; DVINYANINOV, Viktor Nikolayevich, st. prepodavatel'; ZAYTSEV, Pavel Alekseyevich, inzh.; LOPATIN, Anton Venediktovich, dots.; ORLOV, Nikolay Mikhaylovich, inzh.; STRATANOVICH, Nikolay Nikolayevich, inzh.; STRIGANOV, Nikolay Ignat'yevich, inzh.; TIKHONOV, Nikolay Prokop'yevich, dots., kand. tekhn. nauk; RAYKHLIN, Zaliman Tanfilovich, st. prepodavatel'; BELOV, Aleksandr Yemel'novich, dots.; RESHETNIKOV, N.S., dotsent, retsenzent; BABUSHKIN, I.N., red.; PITERMAN, Ye.L., red.izd-va; PARAKHINA, N.L., tekhn. red.

[Repair of lumbering and forestry machinery] Remong lesozagotovitel'nykh i lesokhozyaistvennykh mashin. By D.D.Erakhtin i dr. Moskva, Goslesbumizdat, 1961. 436 p. (MIRA 15:2)

1. Kafedra remonta Moskovskogo lesotekhnicheskogo instituta (for Reshetnikov).
(Forests and forestry—Equipment and supplies)
(Lumbering—Machinery)

YERAKHTIN, D.D., otv. za vyp.; YELCHINA, L.A., red.izd-va; KAZANSKAYA, L.I., tekhn. red.

[Collected papers on the exchange of production and research experiences in the lumbering industry] Sbornik rabot po obmenu proizvodstvennym i nauchnym opytom v lesnoi promyshlennosti. Moskva, Goslesbumizdat, 1963. 69 p. (MIRA 17:3)

1. Nauchno-tekhnicheskoye obshchestvo lesnoy promyshlennosti i lesnogo khozyaystva. Mariyskoye oblastnoye pravleniye.

ACC NR: AP6036113 SOURCE CODE: UR/0365/66/002/006/0686/0691

AUTHOR: Shalyafirner, A. M.; Degtyareva, R. A.; Pimenov, A. F.; Alysheva, Ye. I.; Yerakov, V. I.; Lifanov, V. F.; Anzin, G. N.

ORG: Moscow Institute for Steels and Alloys (Moscovskiy institut stali i splavov); Central Research Institute for Ferrous Metals (Tsentral'nyy nauchno-issledovatel'skiy institut chernykh metallov); Novolipetskiy Metallurgical Plant (Novolipetskiy metallurgicheskiy zavod)

TITLE: Internal oxidation of steel with 3% silicon

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 686-691

TOPIC TAGS: metal oxidation, silicon steel, hot rolling

ABSTRACT: The article reports a study of the oxidation and decarbonization of steel with 3% silicon and 0.05% carbon in the process of hot rolling in an industrial unit, and of decarbonizing annealing (in the presence of scale) in industrial electric furnaces. Steel strips were hot rolled to a thickness of 2.5 mm. In rolling, the initial oxidation temperature was maintained at $940 \pm 10^{\circ}$. The total length of the discharge table was 36 meters; in the last 30 meters the strip was cooled rapidly with water and was in an atmosphere of steam. After this, the strip was coiled and the air supply was cut sharply. The average cooling rate of the strip on the table, under

UDC: 620.193.5

Card 1/2

ACC NR: AP6036113

different rolling conditions, varied only slightly and was from 19-23 degrees/sec. The total oxidation time and the temperature of the strip before coiling were varied by changing the rolling rate. The temperatures of the strip before water cooling and before coiling were measured with an optical pyrometer and were recorded automatically. The coils were cooled in air over a period of 24 hours. Data on the values of the two abovementioned temperatures and on the time of the oxidation process are presented in a table. Based on the experimental data, a table shows the effect of hot rolling conditions on the formation of scale and on the rate of etching after annealing. In the production of steel, it is necessary to take certain measures which limit the process of internal oxidation: 1) the exit temperature of the strip should be lowered to 900° and the temperature of coiling up to 590-600°, because of the effect of the increase of the cooling rate under the influence of the blowing system; 2) the oxidation time of the metal on the discharge table should be shortened by increasing the rolling rate; 3) the heating rate and the temperature in decarbonization annealing should be increased; this leads to more favorable conditions for the oxidation of carbon, compared to the oxidation of silicon. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 11/ SUBM DATE: 28Dec65/ ORIG REF: 007/ OTH REF: 004

Card 2/2

KOST, A.N.; YERAKSINA, V.N.; VINOGRADOVA, Ye.V.

Reduction of the keto group in 3-(carboxyacyl) indoles. Zhur. org. khim. 1 no.1:129-133 Ja '65. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

YERALOVICH, Yageniya.

A collective farm's wealth. Rab. i sial. 31 no.11:16 N '55.
(MLRA 9:1)

1.Il'nanodka, deputat Vyarkhounaga Soveta BSSR, Iuyeuski rayon.
(Iv'ya District--Collective farms)